

STATEMENT BY PERSON WHO PREPARED  
APPLICATION FOR EXPRESS MAIL DEPOSIT

I hereby certify that the copies enclosed herewith of the PCT request form, patent application (including drawings) and "Express Mail" mailing label are true copies of the PCT request form, patent application (including drawings) and "Express Mail" mailing label EL896776841, as originally mailed on October 26, 2001.

Dated: 4-16-02 Signature: Michal Weinstein  
Michal Weinstein  
Foreign Filing Specialist

STATEMENT BY PERSON WHO DEPOSITED  
THE DOCUMENTS BY EXPRESS MAIL

I hereby certify that I deposited the above Express Mail envelope No. EL896776841 with the U.S. Post Office, Gateway branch, on October 26, 2001 at 4:47 P.M.

Dated: 4-16-02 Signature: Mike Ogbonna  
Mike Ogbonna  
Office Services

STATEMENT AS TO WHEN THE DISCREPANCY WAS DISCOVERED

I hereby certify that I first learned about the discrepancy on April 15, 2002. In checking the file, I observed that the return postcard had not been received by our firm. I called the PCT Help Desk the following morning and was told that the application did not appear to be in their system.

This petition is being filed under 37 CFR 1.10(e) promptly after the discovery of the discrepancy.

Dated: April 16, 2002

Signature: Michal Weinstein  
Michal Weinstein  
Foreign Filing Specialist

USPS, GATEWAY  
San Francisco, California  
941113628

10/26/2001 (800)275-8777 04:47:03 PM

Product Description	Sales Receipt		Final Price
	Sale Qty	Unit Price	

WASHINGTON DC 20231			\$16.25
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Express Mail PO-ADD  
Serial Number EL896776841US  
2nd day 3PM /Normal  
Delivery

Paid by account: \$16.25

EMCA account number: 951249

WASHINGTON DC 20231			\$16.25
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Express Mail PO-ADD  
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2nd day 3PM /Normal  
Delivery

Paid by account: \$16.25

EMCA account number: 951249

WASHINGTON DC 20231			\$12.45
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Express Mail PO-ADD  
Serial Number EL707908810US  
2nd day 3PM /Normal  
Delivery

Paid by account: \$12.45

EMCA account number: 951249

WASHINGTON DC 20231			\$16.25
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Express Mail PO-ADD  
Serial Number EL707908735US  
2nd day 3PM /Normal  
Delivery

Paid by account: \$16.25

EMCA account number: 951249

WASHINGTON DC 20231			\$12.45
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Express Mail PO-ADD  
Serial Number EL896778003US  
2nd day 3PM /Normal  
Delivery

Paid by account: \$12.45

EMCA account number: 951249

WASHINGTON DC 20231			\$12.45
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Express Mail PO-ADD  
Serial Number EL873332425US  
2nd day 3PM /Normal  
Delivery

Paid by account: \$12.45

EMCA account number: 951249

Total:			\$0.00
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Paid by:

Bill#: 1000600362932  
Clerk: 13

— Thank you for your business —

PCT INTERNATIONAL APPLICATION TRANSMITTAL LETTER	DATE: October 26, 2001
REGARDING THE INTERNATIONAL APPLICATION OF KLA-Tencor Corporation	DOCKET OR REFERENCE NUMBER M-10697 WO
ENTITLED Overlay error detection	

**EL896776841US**

Certification under 37 CFR 1.10 (if applicable)

EXPRESS MAIL LABEL NO.  
EL896776841

To the United States Receiving Office (RO/US):

Accompanying this transmittal letter is the above-identified International application, including a completed Request form (PCT/RO/101). Please process the application according to the provisions of the Patent Cooperation Treaty.

The following requests are made of the RO/US:

1. ☒ PREPARATION AND TRANSMITTAL OF CERTIFIED COPY OF PRIORITY DOCUMENTS – Please prepare and transmit to the International Bureau a certified copy of the United States origin priority documents identified in Box VI of the Request form (37 CFR 1.451).

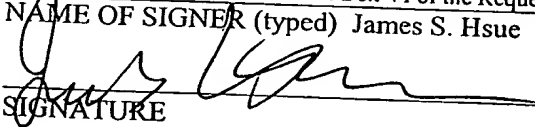
To cover the cost of copy preparation and certification (37 CFR 1.19(a)(3) and (b)(1)).  
☐ a (check)(money order) in the amount of \$ \_\_\_\_\_ is attached to this transmittal letter.

☒ the RO/US is hereby authorized to charge the following deposit account no.: 19-2386  
The appropriate Search fee for the above-named Authority is indicated on the Fee Calculation Sheet (PCT/RO/101 Annex).

2. ☒ SUPPLEMENTAL SEARCH FEES (ONLY WHEN ISA/US CONDUCTS THE INTERNATIONAL SEARCH.) Please charge any Supplemental Search fees that may be required by the United States International Searching Authority (ISA/US) to deposit account no.: 19-2386  
*I understand that this authorization is subject to my oral confirmation thereof in each instance and that it in no way limits my right to submit a protest against payment of the Supplemental Search fees, but is merely an administrative aid to assure that the ISA/US may timely complete the Search Report.*

NOTE: SUPPLEMENTAL SEARCH FEES FOR ISA/EP ARE PAYABLE DIRECTLY TO THE EUROPEAN PATENT OFFICE

3. ☒ DISCLOSURE INFORMATION – In order to assist in screening the accompanying International application for purposes of determining whether a license for foreign transmittal should and could be granted, the following information is supplied:  
A. ☐ There is no prior filed application relating to this invention.  
B. ☒ There is a prior application, serial number 09/697,025 filed on October 26, 2000 which contains subject matter that is  
1. ☒ substantially identical to that of the accompanying International application.  
2. ☐ less than that of the accompanying International application. The additional subject matter of the International application appears on page(s) and line(s) \_\_\_\_\_  
3. ☐ more than that of the accompanying International application.  
C. ☐ Disclosure information cannot be covered by the language of Points 3A or 3B above due to the involvement of several prior applications or for other reasons. A separate sheet on which the disclosure information is explained is attached to this transmittal letter.
4. ☒ REQUEST FOR FOREIGN TRANSMITTAL LICENSE – According to the provisions of 35 U.S.C. 184 and 37 CFR 5.11, a license to transmit the accompanying International application to foreign agencies or international authorities is hereby requested.  
Priority is not claimed, unless all necessary information is listed in Box VI of the Request Form (PCT/RO/101).

SIGNER IS THE <input type="checkbox"/> APPLICANT <input type="checkbox"/> COMMON REPRESENTATIVE <input checked="" type="checkbox"/> (ATTORNEY)(AGENT) REG. NO: 29,545	NAME OF SIGNER (typed) James S. Hsue
	SIGNATURE 

## PCT REQUEST

1/4

M-10697 WO

Original (for SUBMISSION) - printed on 26.10.2001 12:48:29 PM

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using	PCT-EASY Version 2.92 (updated 01.03.2001)
0-5	Petition	
	The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	United States Patent and Trademark Office (USPTO) (RO/US)
0-7	Applicant's or agent's file reference	M-10697 WO
I	Title of invention	OVERLAY ERROR DETECTION
II	Applicant	
II-1	This person is:	applicant only
II-2	Applicant for	all designated States
II-4	Name	KLA-TENCOR CORPORATION
II-5	Address:	160 Rio Robles San Jose, CA 95134-1809 United States of America
II-6	State of nationality	US
II-7	State of residence	US
II-8	Telephone No.	(408) 875-5990
II-9	Facsimile No.	(408) 875-2002
III-1	Applicant and/or inventor	
III-1-1	This person is:	inventor only
III-1-4	Name (LAST, First)	NIKOONAHAD, Mehrdad
III-1-5	Address:	271 Oakhurst Place Menlo Park, CA 94025 United States of America
III-2	Applicant and/or inventor	
III-2-1	This person is:	inventor only
III-2-4	Name (LAST, First)	ZHAO, Guoheng
III-2-5	Address:	1062 Starlite Drive Milpitas, CA 95035 United States of America

## PCT REQUEST

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M-10697 WO

III-3	Applicant and/or inventor	
III-3-1	This person is:	inventor only
III-3-4	Name (LAST, First)	SHCHEGROV, Andrei, V.
III-3-5	Address:	325 Union Avenue, Apt. 359 Campbell, CA 95008 United States of America
III-4	Applicant and/or inventor	
III-4-1	This person is:	inventor only
III-4-4	Name (LAST, First)	TSAI, Ben
III-4-5	Address:	19801 Scotland Drive Saratoga, CA 95070 United States of America
IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	HSUE, James, S.
IV-1-2	Address:	SKJERVEN MORRILL MACPHERSON LLP Three Embarcadero Center, 28th Floor San Francisco, CA 94111 United States of America (415) 217 6252 (415) 434 0646 jhsue@skjerven.com 29,545
IV-1-3	Telephone No.	
IV-1-4	Facsimile No.	
IV-1-5	e-mail	
IV-1-5	Agent's registration No.	
V	Designation of States	
V-1	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR and any other State which is a Contracting State of the European Patent Convention and of the PCT
V-2	National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	JP

## PCT REQUEST

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M-10697 WO

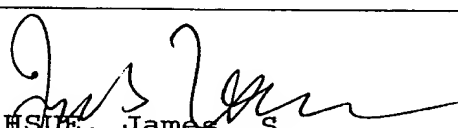
Original (for SUBMISSION) - printed on 26.10.2001 12:48:29 PM

V-5	<b>Precautionary Designation Statement</b> In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit.	
V-6	<b>Exclusion(s) from precautionary designations</b>	NONE
VI-1	<b>Priority claim of earlier national application</b>	
VI-1-1	Filing date	26 October 2000 (26.10.2000)
VI-1-2	Number	09/697,025
VI-1-3	Country	US
VI-2	<b>Priority document request</b> The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1
VII-1	<b>International Searching Authority Chosen</b>	United States Patent and Trademark Office (USPTO) (ISA/US)
VII-2	<b>Request to use results of earlier search; reference to that search</b>	
VII-2-1	Date	26 October 2000 (26.10.2000)
VII-2-2	Number	09/697,025
VII-2-3	Country (or regional Office)	US
VIII	<b>Declarations</b>	Number of declarations
VIII-1	Declaration as to the identity of the inventor	-
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-

## PCT REQUEST

M-10697 WO

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IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	4	-
IX-2	Description	30	-
IX-3	Claims	24	-
IX-4	Abstract	1	EZABST00.TXT
IX-5	Drawings	17	-
IX-7	TOTAL	76	
	Accompanying items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	✓	-
IX-17	PCT-EASY diskette	-	Diskette
IX-18	Other (specified):	Express Mail #EL896776841	-
IX-18	Other (specified):	Return Postcard	-
IX-19	Figure of the drawings which should accompany the abstract	1	
IX-20	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative		
X-1-1	Name (LAST, First)	HSUE, James, S.	

## FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/US
10-6	Transmittal of search copy delayed until search fee is paid	

## FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
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## PCT (ANNEX - FEE CALCULATION SHEET)

M-10697 WO

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(This sheet is not part of and does not count as a sheet of the international application)

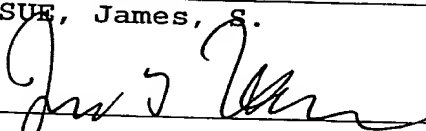
0	For receiving Office use only	
0-1	International Application No.	
0-2	Date stamp of the receiving Office	
0-4	Form - PCT/RO/101 (Annex) PCT Fee Calculation Sheet	
0-4-1	Prepared using	PCT-EASY Version 2.92 (updated 01.03.2001)
0-9	Applicant's or agent's file reference	M-10697 WO
2	Applicant	KLA-TENCOR CORPORATION
12	Calculation of prescribed fees	fee amount/multiplier      total amounts (USD)
12-1	Transmittal fee T	⇒ 240
12-2	Search fee S	⇒ 450
12-3	International fee	
	Basic fee (first 30 sheets) b1	382
12-4	Remaining sheets	46
12-5	Additional amount (X)	9
12-6	Total additional amount b2	414
12-7	b1 + b2 = B	796
12-8	Designation fees	
	Number of designations contained in international application	2
12-9	Number of designation fees payable (maximum 6)	2
12-10	Amount of designation fee (X)	82
12-11	Total designation fees D	164
12-12	PCT-EASY fee reduction R	-117
12-13	Total International fee (B+D-R) I	⇒ 843
12-14	Fee for priority document	
	Number of priority documents requested	1
12-15	Fee per document (X)	15
12-16	Total priority document fee P	⇒ 15
12-17	TOTAL FEES PAYABLE (T+S+I+P)	⇒ 1,548
12-19	Mode of payment	authorization to charge deposit account
12-20	Deposit account instructions	
	The receiving Office:	United States Patent and Trademark Office (USPTO) (RO/US)
12-20-1	Authorization to charge the total fees indicated above.	✓
12-20-2	Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.	✓

## PCT (ANNEX - FEE CALCULATION SHEET)

2/2

Original (for SUBMISSION) - printed on 26.10.2001 12:48:29 PM

M-10697 WO

12-20-3	Authorization to charge the fee for priority document.	✓
12-21	Deposit account No.	19-2386
12-22	Date	26 October 2001 (26.10.2001)
12-23	Name and signature	HSUE, James, S. 

## VALIDATION LOG AND REMARKS

13-2-2	Validation messages States	Green? More designations could be made. The following States have not been designated: AP:( GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW); EA:( AM, AZ, BY, KG, KZ, MD, RU, TJ, TM); OA:( BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG); AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, LI, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW. Please verify.
13-2-7	Validation messages Contents	Yellow! The power of attorney or a copy of the general power of attorney will need to be furnished unless all applicants sign the request form.
		Green? The abstract shall be as concise as the disclosure permits (preferably 50 to 150 words if it is in English or when translated into English).
13-2-8	Validation messages Fees	Green? Please confirm that fee schedule utilized is the latest available
13-2-9	Validation messages Payment	Green? Please ensure that you have a valid deposit account with the receiving Office selected.

**BOX PCT  
COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231**

Applicant: KLA-Tencor Corporation  
Inventor: Nikoonahad et al.  
Title: Overlay Error Detection  
Attorney Docket: M-10697 WO

**ENCLOSED:**

XX PCT Int'l. Appln. Transmittal Letter (PTO-1382)  
XX Request Form PCT/RO/101 - 4 pages (PCT-Easy 2.92)  
XX Fee Calculation Sheet (w/Authorization to charge deposit account) (2 pgs) (PCT-Easy 2.92)  
XX pages Drawings (17)  
XX pages Description (30)  
XX pages Claims (25)  
XX page Abstract (1)  
XX Diskette  
XX Return Receipt Postcard  
XX Authorization to charge Deposit Account No. 19-2386 on Fee Calculation Sheet

/mw

October 26, 2001

VIA EXPRESS MAIL NO.: EL896776841



**POST OFFICE  
TO ADDRESSEE**



EL 896776841 US

<b>ORIGIN (POSTAL USE ONLY)</b>		Flat Rate Envelope	
PO ZIP Code 94126	Day of Delivery <input type="checkbox"/> Next <input checked="" type="checkbox"/> Second	<input type="checkbox"/>	
Date in 10 26 01	<input type="checkbox"/> 12 Noon <input checked="" type="checkbox"/> 3 PM	Postage \$ 162	
Time in 1 642	Military <input type="checkbox"/> 2nd Day <input type="checkbox"/> 3rd Day	Return Receipt Fee	
Weight lbs. ozs.	Int'l Alpha Country Code	COD Fee	Insurance Fee
No Delivery <input type="checkbox"/> Weekend <input type="checkbox"/> Holiday	Acceptance Clerk Initials X	Total Postage & Fees \$ 162	



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M-10697 WO/mw

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TO: (PLEASE PRINT) COMMISSIONER FOR PATENTS  
BOX PCT  
WASHINGTON DC 20231-9998

PHONE ( )

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F23  
T12

91

**PATENT COOPERATION TREATY**  
**Appointment of Agents**

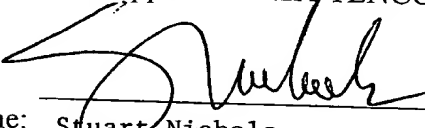
The undersigned applicant(s) hereby appoint(s):

Cindy I. Abravanel (48,403); Michael P. Adams (34,763); Christopher B. Allenby (45,906); Marc R. Ascolese (42,268); Shireen Irani Bacon (40,494); Mary Jo Bertani (42,321); Henry Black (43,320); Todd M. Briggs (44,040); Matthew J. Brigham (44,047); Sam G. Campbell (42,381); Tom Chen (42,406); Alex Chen (45,591); Vasant V. Chephekar (48,344); Michael G. Cleveland (46,030); Carmen C. Cook (42,433); K. Alison De Runtz (37,119); David G. Dolezal (41,711); Gary J. Edwards (41,008); Christopher B. Eide (48,375); Rahul Engineer (47,548); Kirsten M. Fish (45,713); Jonathan Geld (44,702); Linda G. Gunderson (46,341); Michael A. Guth (45,983); Michael J. Halbert (40,633); Jonathan W. Hallman (42,622); David W. Heid (25,875); David C. Hsia (46,235); James S. Hsue (29,545); Peter H. Kang (40,350); Margaret M. Kelton (44,182); John C. Kennel (48,562); Do Te Kim (46,231); Norman R. Klivans (33,003); Ken John Koestner (33,004); Janaki Komanduri (40,684); Edward C. Kwok (33,938); Don C. Lawrence (31,975); Rachel V. Leiterman (46,868); Theodore P. Lopez (44,881); Alan H. MACpherson (24,423); Fabio E. Marino (43,339); Ronald J. Meetin (29,089); Gregory J. Michelson (44,940); Peter G. Mikhail (46,930); Erin C. Ming (47,797); Robert B. Morrill (43,817); John A. Odozynski (28,769); Brian D. Ogonowsky (31,988); Gerald P. Parsons (24,486); James E. Parsons (34,691); Rene A. Pereyra (45,800); D'Ann Rifai (47,026); Emmanuel Rivera (45,760); William L. Robinson (47,032); Mark J. Rozman (42,117); Mark E. Schmidt (47,063); Michael Shenker (34,250); Eric A. Stephenson (38,321); David E. Steuber (25,557); Daniel P. Stewart (41,332); Jenny Sung (48,639); Omkar K. Suryadevara (36,320); Stephen A. Terrile (32,946); Jeffrey T. Thayer (48,530); Robert D. Wasson (40,218); Rita M. Wisor (41,382); Philip W. Woo (39,880); Philip Yau (32,892); Gergely T. Zimanyi (45,754); Abdul R. Zindani (46,901); Kevin McAndrews (34,496); Marius Domokos (48,153);

as agents to act on its/his/her/their behalf before the competent International Authorities in connection with the international application concerning "**Overlay Error Detection**" Agents' file reference **M-10697 WO**, filed with the United States Receiving Office (RO/US) and request(s) that all payments on its/his/her/their behalf, and also all correspondence, notices, official letters and other communication be directed to:

James S. Hsue, Esq.  
Skjerven Morrill MACPherson LLP  
Three Embarcadero Center, 28<sup>th</sup> Floor  
San Francisco, California 94111

Signed on behalf of Applicant: KLA-TENCOR CORPORATION

Signature: 

Name: Stuart Nichols  
Title: Vice President and General Counsel  
Place: KLA-Tencor Corporation  
Date: \_\_\_\_\_